

PRECISION APPROACH PATH INDICATOR - PAPI

COMPLIANCE WITH STANDARDS

- ICAO ANNEX 14 Vol 1; Part 4, Part 5, Part 6 (Doc 9157 - AN/901).
- FAA AC 150/5345-28G.
- FAA – E – 2756B.

PRODUCT DESCRIPTION

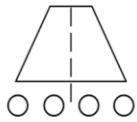
INTRODUCTION

A PAPI system comprises of 4 PAPI units which support pilot to carry out the visual approach with the compliant approaching angle and usually located at the left-side of the runway adjacent to the origin of the glide path.

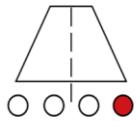


Figure 1: PAPI

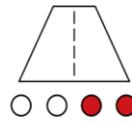
TOO HIGH



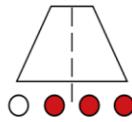
HIGH



CORRECT APPROACH



LOW



TOO LOW

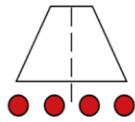


Figure 2: Approaching angles of aircrafts described by various colors of PAPI units

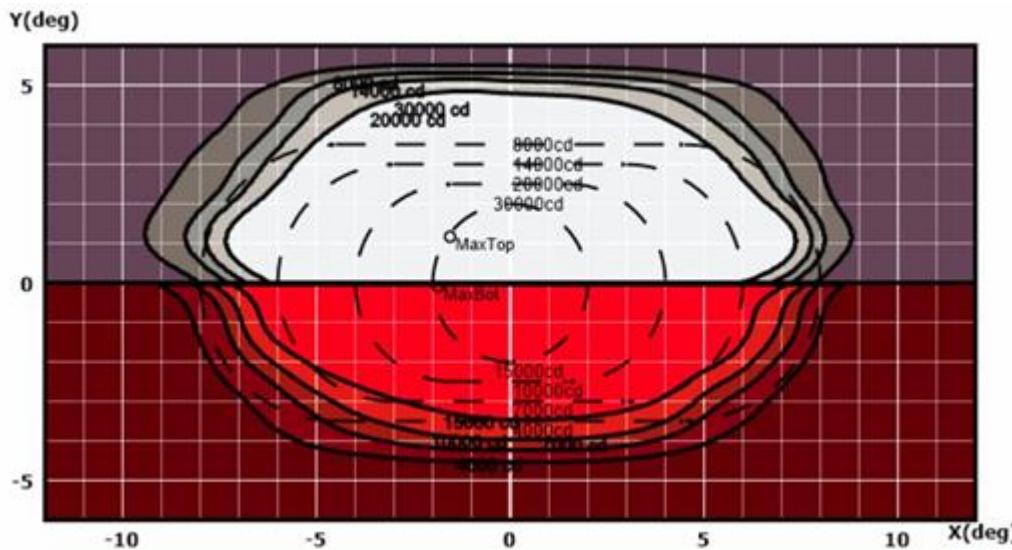
STRUCTURE

- PAPI units are manufactured by aluminum alloy, electrostatic painted and convenient for assembly.
- In-front optical system consists of lenses, color filters and lamp operation status monitoring.
- PAPI units are configured by 03 legs which are able to be adjusted via angles, heights and balances of lamps to horizon compatible with ICAO standards.

TECHNICAL SPECIFICATIONS

Optical specifications

- Color of light beam, in accordance with ICAO Annex 14 Vol 1, Appendix 2.
- Using lighting system which is composed of 2 PK30D-200W/6.6A lamps with life-time up to 1000 hours at the largest intensity.



Notes:

- Reality iso-candela line
- - - Standard iso-candela line
- Maximum

Figure 3: Optical measurement results

Electrical specifications

- Input: 2.8A to 6.6A series circuit from constant current regulator (CCR).
- Primary connector Style 1 or secondary connector Style 6 (according to AC 150/5345-26).

Monitoring and control system (Option)

In order to keep PAPI system operate stably, safely and in accordance with technical standards, products are equipped with monitoring and control system featured as follows:

- Alarm and automatically turn off PAPI units when angles of 1 out of 4 units differ from the preset nominal angle of $\pm 0,25^\circ$ (the preset nominal angles are adjustable).
- Alarm when 1 lamp of any unit is failed (not bright). The PAPI system is turned off when any 2 lamps are failed.
- Alarm and automatically turn off PAPI system when internal temperature of 1 unit is higher than 85°C .

Signals are transmitted from PAPI system to remote monitoring and control system via RS-485 cables and wireless (within 3 kilometer line-of-sight) frequency 433 MHz. Data communication between PAPI units are transmitted via RS-485 cables.

Operating environment

- Outdoor installation.
- Temperature: 0°C to 55°C .
- Humidity: 100%.
- Wind speed upto 161 km/h.

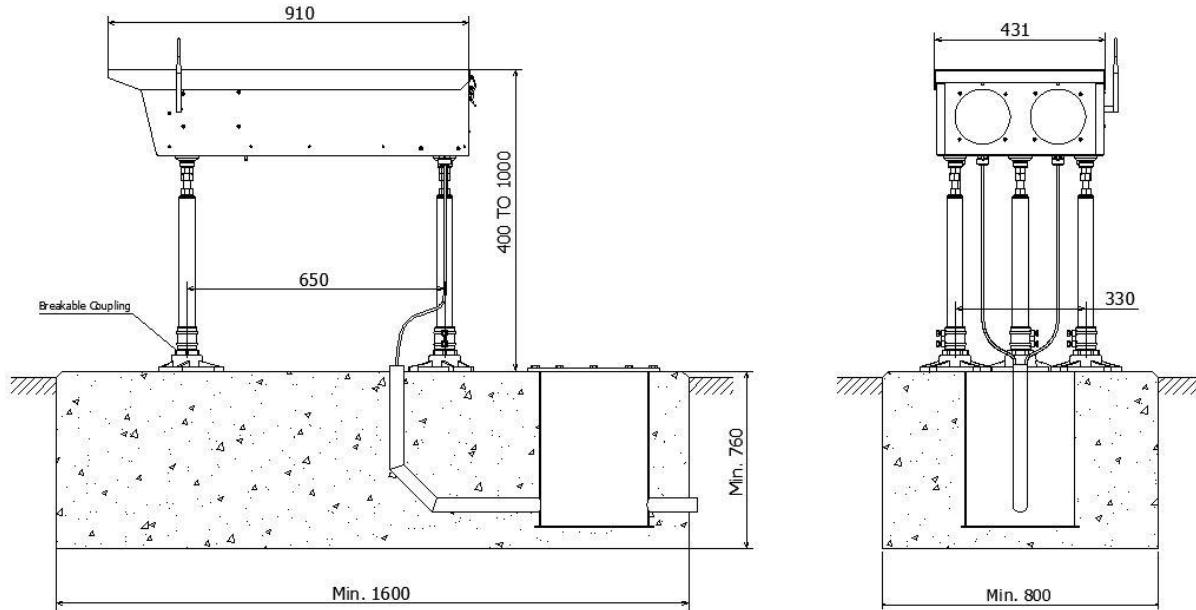


Figure 4: Dimensions for installing PAPI units

PACKAGING

- Carton box, 930 x 560 x 260mm, 25kg gross weight; 01 PAPI unit, 03 legs, 03 bases and 03 breakable coupling included.
- Wooden crate, 500 x 254 x 168mm, 6kg gross weight; 01 alignment tool and 01 digital protractor included.

ORDERING CODE

ATTECH-PAPI-V1

01

| | | |
|------------------------|----|-----|
| CONTROL/ MONITORING | 00 | 01 |
| | NO | YES |

Note:

- For any other request, please contact ATTECH for more.
- The herein stated figures and sizes should be taken as examples only and are adjustable per the manufacturer's regulations.